

Variance Table

Hugo	GID	OMIM ID	VGX Symbol	Description
			Variance Start	Variance
	U73338	U73338	156570	GEN-69
	194	(-201)C>G	5'	
10	284	(-111)C>T	5'	
	1136	742G>A	V248M	
	1252	858C>T	Silent	
	1334	940G>A	D314N	
	1699	1305T>C	Silent	
15	3150	2756A>G	D919G	
	3207	2813G>T	S938I	
	3209	2815G>C	G939R	
	5444	5050C>A	3'	
	5551	5157G>A	3'	
20	5573	5179C>T	3'	
	5659	5265T>C	3'	
	5678	5284T>C	3'	
	5874	5480C>T	3'	
	5934	5540A>G	3'	
25	D78586	D78586	114010	GEN-BR
	3434	3408C>T	Silent	
	4313	4287T>C	Silent	
	4799	4773A>G	Silent	
	5255	5229C>T	Silent	
30	5455	5429G>A	R1810Q	
	5507	5481T>C	Silent	
	5810	5784C>T	Silent	
	6128	6102C>T	Silent	
	6626	6600C>T	Silent	
				CAD PROTEIN

	6686	6660C>T	GEN-HA	Dihydropyrimidine Dehydrogenase
	U09178	U09178	274270	GEN-HA
	166	85T>C	C29R	
	577	496A>G	M166V	
	638	557A>G	Y186C	
5	1708	1627A>G	I543V	
	3432	3351T>C	3'	
	3682	3601C>T	3'	
	3730	3649G>A	3'	
16	3925	3844A>G	3'	
	3937	3856T>C	3'	
	U19720	U19720	600424	Folate Transporter (SLC19A1)
	175	80G>A	R27H	
	341	246C>G	Silent	
15	791	696C>T	Silent	
	1067	972G>A	Silent	
	1337	1242C>A	Silent	
	1997	1902T>C	3'	
	2100	2005^2006insG	3'	
20	2582	2487T>G	3'	
	2617	2522C>T	3'	
	2652	2557T>C	3'	
	U92868	U92868	600424	Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b
	431	431A>G	Intron	
25	441	441A>G	Intron	
	498	498C>T	Intron	
	579	579G>C	Intron	
	599	599G>C	Intron	
	X02308	X02308	188350	Thymidylate synthetase
30	1066	961T>C	3'	
	1136	1031A>G	3'	
	1497	1392T>A	3'	
	D00517	D00517	188350	Thymidylate synthase, promoter
	276	276C>T	Intron	
35	321	321T>C	Intron	
	452	452G>A	Intron	

13171	13171T>C	Intron
13298	13298G>A	Intron
13645	13645T>C	Intron
13751	13751C>A	Intron
13782	13782T>C	Intron
13806	13806T>C	Intron
13813	13813T>C	Intron
14479	14479A>G	Intron
14546	14546^insT	Intron
14585	14585C>T	Intron
14729	14729G>A	Intron
14787	14787C>T	Intron
14795	14795G>A	Intron
15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
15769	15769C>T	3'
15839	15839A>G	3'
16148	16148G>A	3'
16198	16198T>G	3'
16202	16202G>T	Intron
25	X59618 X59618 180390	GEN-M3
128	(-67)G>A	5'
189	(-6)T>G	5'
524	330C>G	Silent
1399	1205T>A	3'
1464	1270G>A	3'
1636	1442C>T	3'
1738	1544C>T	3'
2259	2065T>C	3'
30	S72487 S72487 131222	GEN-3LD
183	19G>A	D7N
483	319C>T	3'
35		Thymidine phosphorylase, partial

✱

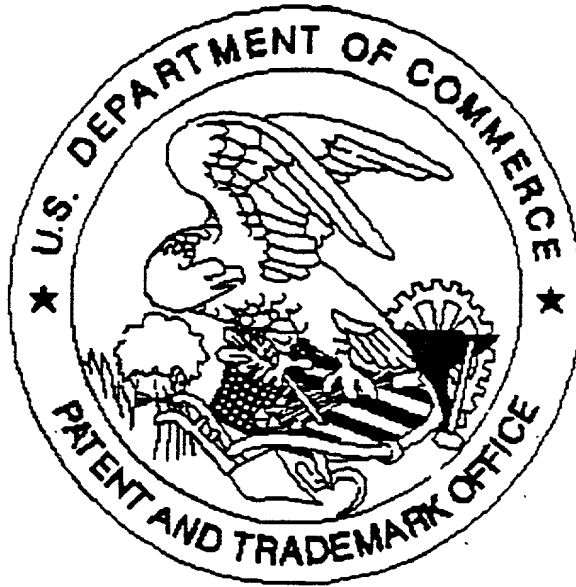
5	527	527C>G	Intron		
	1037	1037A>G	5'		
	1139	1139G>A	Intron		
	1217	1217C>T	Intron		
	1647	1647C>T	Intron		
	1955	1955G>A	Intron		
	2017	2017G>A	Intron		
	2037	2037G>A	Intron		
	2189	2189A>G	Intron		
	2282	2282C>T	Intron		
10	2309	2309A>G	Intron		
	U09806	U09806	236250	GEN-4FZ	Human methylenetetrahydrofolate reductase mRNA, partial cds
	120	120T>C	Silent		
	464	464T>G	M155R		
15	519	519C>T	Silent		
	668	668C>T	A223V		
	1059	1059T>C	Silent		
	1289	1289C>A	3'		
	1308	1308T>C	3'		
20	1784	1784G>A	3'		
	AF061655	AF061655	123920	GEN-LUJ	Cytidine deaminase, promoter
	575	575T>C	Intron		
	648	648T>C	Intron		
	771	771G>C	Intron		
25	883	883G>A	Intron		
	941	941^insC	5'		
	1051	1051A>C	K27Q		

[illegible]

SN 09963333 Mail Date 10/03/01

- ☐ Non-English Specification
- ☒ Specification contains drawing(s) on page(s) _____ or table(s) Some
- ☐ Landscape orientation of text ☐ Specification ☐ Claims ☐ Abstract
- ☐ Handwritten ☐ Specification ☐ Claims ☐ Abstract
- ☐ More than one column ☐ Specification ☐ Claims ☐ Abstract
- ☐ Improper line spacing ☐ Specification ☐ Claims ☐ Abstract
- ☐ Claims not on separate page(s)
- ☐ Abstract not on separate page(s)
- ☐ Improper paper size -- Must be either A4 (21 cm x 29.7 cm) or 8-1/2"x 11"
- ☐ Specification page(s) _____ ☐ Abstract
- ☐ Drawing page(s) _____ ☐ Claim(s)
- ☐ Improper margins
- ☐ Specification page(s) _____ ☐ Abstract
- ☐ Drawing page(s) _____ ☐ Claim(s)
- ☐ Not reproducible Section
- Reason ☐ Specification page(s) _____
- ☐ Paper too thin ☐ Drawing page(s) _____
- ☐ Glossy pages ☐ Abstract
- ☐ Non-white background ☐ Claim(s)
- ☐ Drawing objection(s)
- ☐ Missing lead lines, drawing(s) _____
- ☐ Line quality is too light, drawing(s) _____
- ☐ More than 1 drawing and not numbered correctly
- ☐ Non-English text, drawing(s) _____
- ☐ Excessive text, drawing(s) _____
- ☐ Photographs capable of illustration, drawing(s) _____

United States Patent & Trademark Office
Office of Initial Patent Examination -- Scanning Division



Application deficiencies found during scanning:

☐ Page(s) _____ of _____ were not present
for scanning. (Document title)

☐ Page(s) _____ of _____ were not present
for scanning. (Document title)

☐ *Scanned copy is best available.*

There are page Number 171, 172, 173, 174, 175, 176,
as part of Specification are table